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1 2 3 4 5 6

A

Turns on hand crank motor drive mechanism

CONTACT

1 2

3 4

1 2

3 4

5 6

7 8

9 10

11 12

13 14

15 16

S14, S25

n-1 n n+1

S15, S20

n-1 n n+1

-S6.1

-S6.2

-S6.2

-S6.2

POS. RAISE OPERATION POS.

n 0 5 10 15 20 24 n+1 25

0 5 10 15 20 24 n+1 25

0 5 10 15 20 24 n+1 25

0 5 10 15 20 24 n+1 25

0 5 10 15 20 24 n+1 25

0 5 10 15 20 24 n+1 25

0 5 10 15 20 24 n+1 25

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0 5 10 15 20 24 n+1 25

0 5 10 15 20 24 n+1 25

0 5 10 15 20 24 n+1 25

0 5 10 15 20 24 n+1 25

0 5 10 15 20 24 n+1 25

POS. LOWER OPERATION POS.

n 0 5 10 15 20 24 n-1 25

0 5 10 15 20 24 n-1 25

0 5 10 15 20 24 n-1 25

0 5 10 15 20 24 n-1 25

0 5 10 15 20 24 n-1 25

0 5 10 15 20 24 n-1 25

0 5 10 15 20 24 n-1 25

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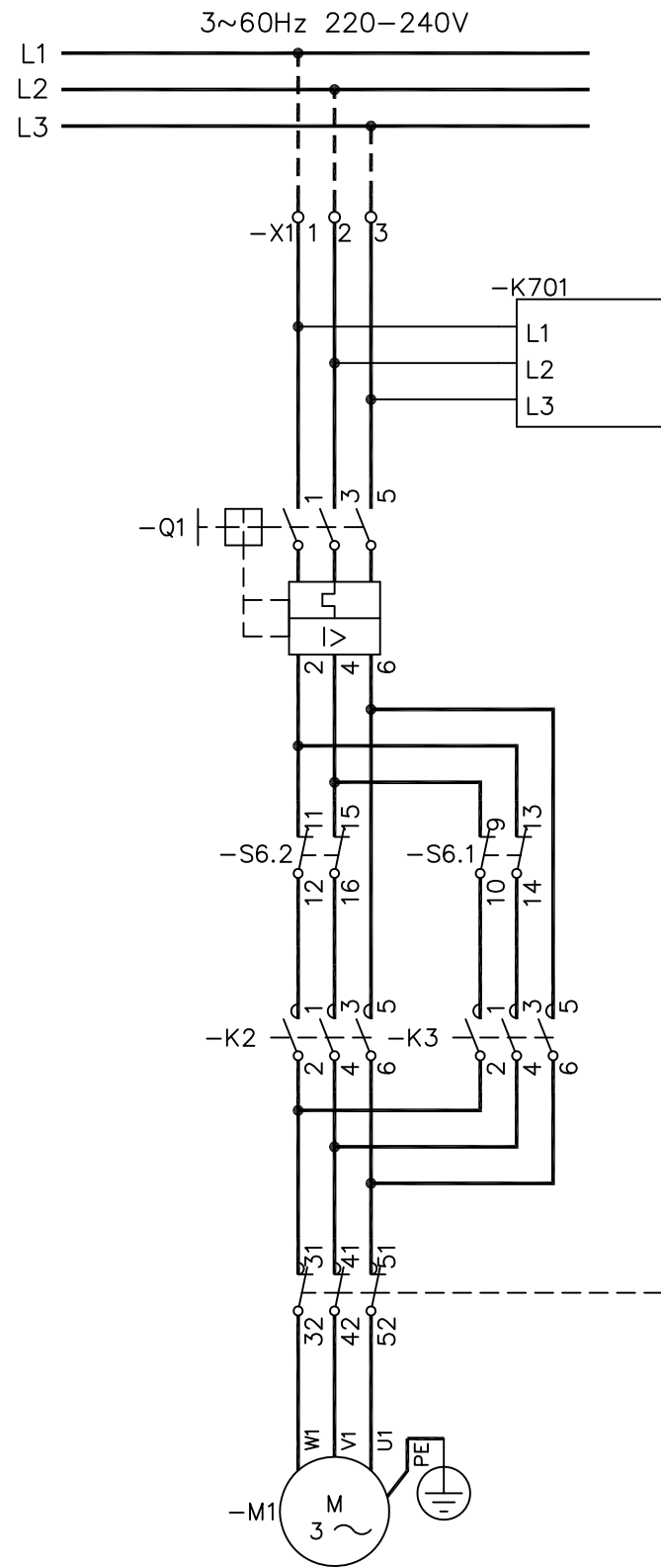
0 5 10 15 20 24 n-1 25

- B1 Thermostat  
B2 Humidistat  
B3 Position indicator  
E1 Anti-condensation heater  
E2 Heater  
E3 Cabinet light  
F1 Circuit breaker (heater circuit)  
F2 Circuit breaker (control circuit)  
K1 Contactor, step by step operation  
K2 Contactor, raise  
K3 Contactor, lower  
K5 Contactor, blocking  
K601 Time relay, running-through protection  
K602 Time relay, tap-change incomplete  
K701 Undervoltage relay, motor circuit  
K702 Undervoltage relay, control circuit  
K11 Interposing relay, Raise (RIR)  
K12 Interposing relay, Lower (LIR)  
M1 Motor  
Q1 Motor protective switch  
S1 Control selector switch, LOCAL/O/REMOTE  
S2 Control switch  
S5 Interlocking switch, open when hand crank is fitted  
S6 Cam switch (Limit switch)  
S8 Push button, EMERGENCY STOP  
S9 Switch, door operated  
S10 Switch for heater  
S11 Cam switch, 1-2 Starting contact  
S12 Cam switch  
1-2, 3-4 Maintaining contact  
5-6, 7-8 Interlocking contact  
9-10, 11-12 Auxiliary contact  
13-14, 15-16 Auxiliary contact  
S14 Position transmitter (potentiometer)  
S15 Continuation contact  
S20 Multiposition switch (BBM)  
S25 Multiposition switch (MBB)  
U1 Measuring transducer  
X Terminal board group

- U Upper limit pos.  
L Lower limit pos.  
Crank  
Remote control  
Local control  
Protective earth

Based on		Prepared 2012-05-29 THLA	Circuit Diagram			
		Approved 2012-06-15 TOLA	Motor-drive Mechanism			
			TYPE BUE 2		Resp dep COM/FOK	Rev ind
					T30000298	Lang
					XZ 220 027-VRZ	Sheet1
						Cont 2

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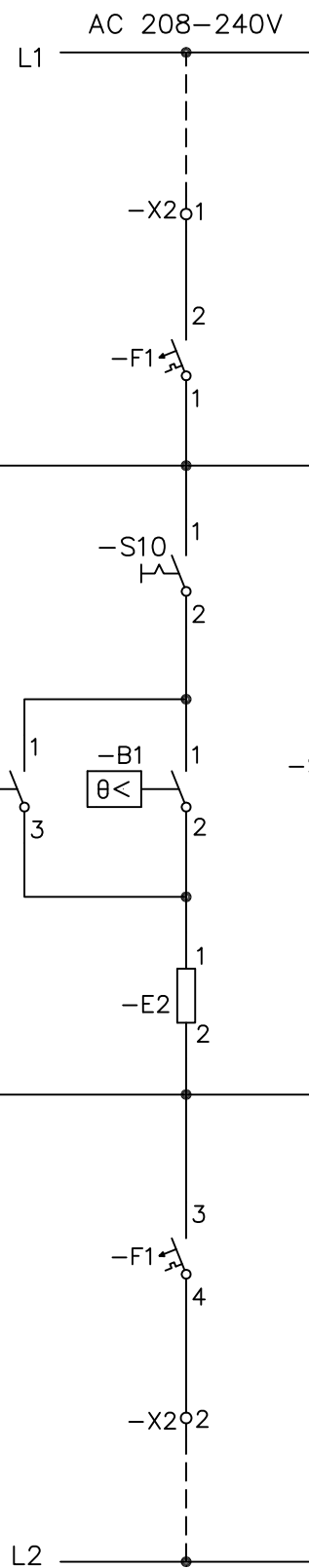


OVER CURRENT  
BLOCKING  
125V DC

+  
-X3 12

A1  
A2  
-K5

-X3 13

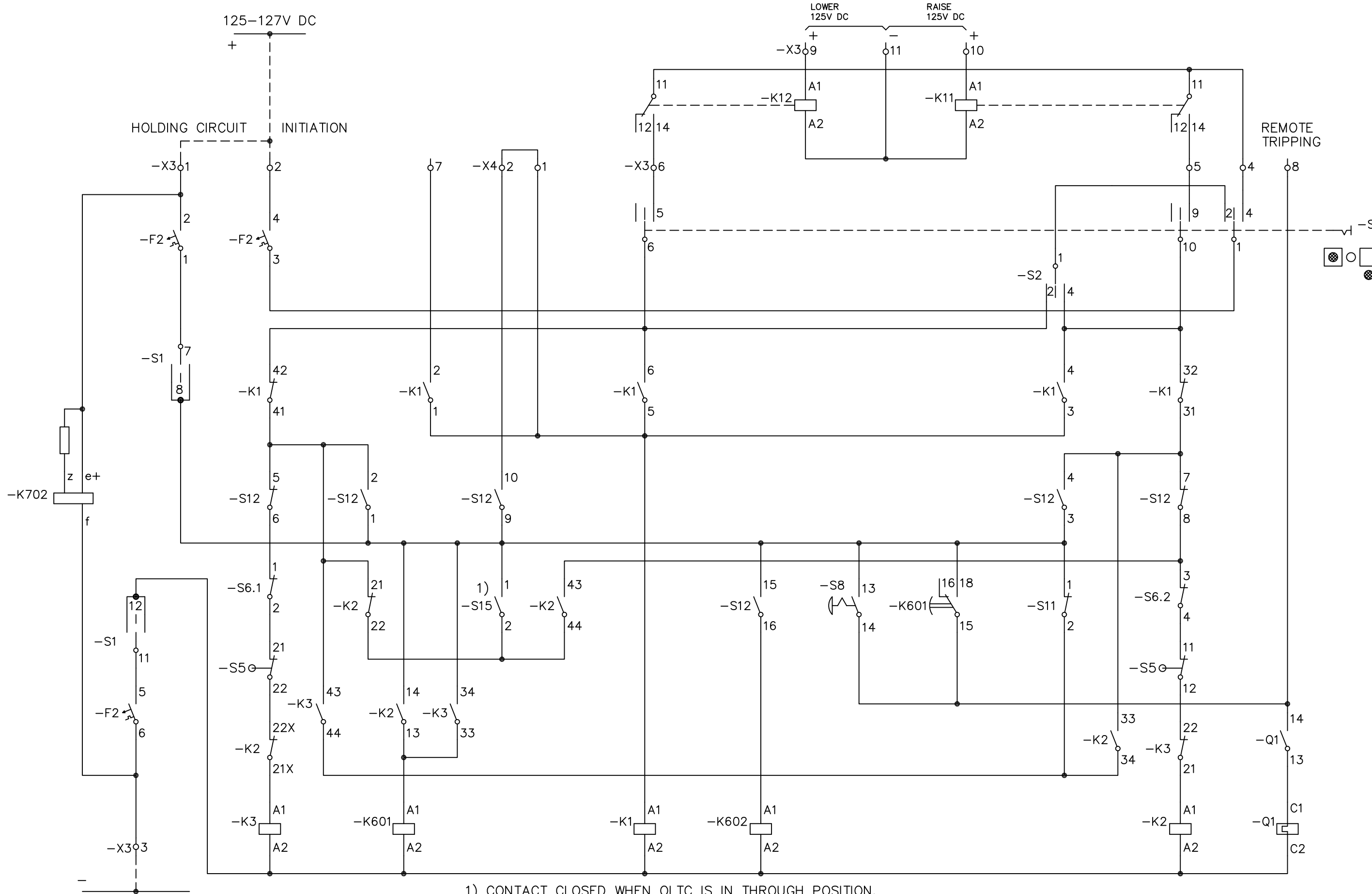


ALL EQUIPMENT SHOWN IN THE UN-OPERATED AND NO CURRENT  
CONDITION WITH MOTOR PROTECTIVE SWITCH TRIPPED.

WIRING TABLE: XZ 220 028-VRZ

Based on	Prepared 2012-05-29	THLA	Circuit Diagram		=MD	
	Approved 2012-06-15	TOLA	Motor-drive Mechanism		COM/FOK	
T30000298	ABB		TYPE BUE 2		Rev ind	Lang
			XZ 220 027-VRZ		Sheet2	Cont 3

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1) CONTACT CLOSED WHEN OLTC IS IN THROUGH POSITION.

Based on	Prepared2012-05-29	THLA	Circuit Diagram		=MD	
	Approved2012-06-15	TOLA	Motor-drive Mechanism		Resp depCOM/FOK	
T30000298	ABB		TYPE BUE 2		Rev ind	
			XZ 220 027-VRZ		Lang	
					Sheet3	
					Cont 4	

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A

B

C

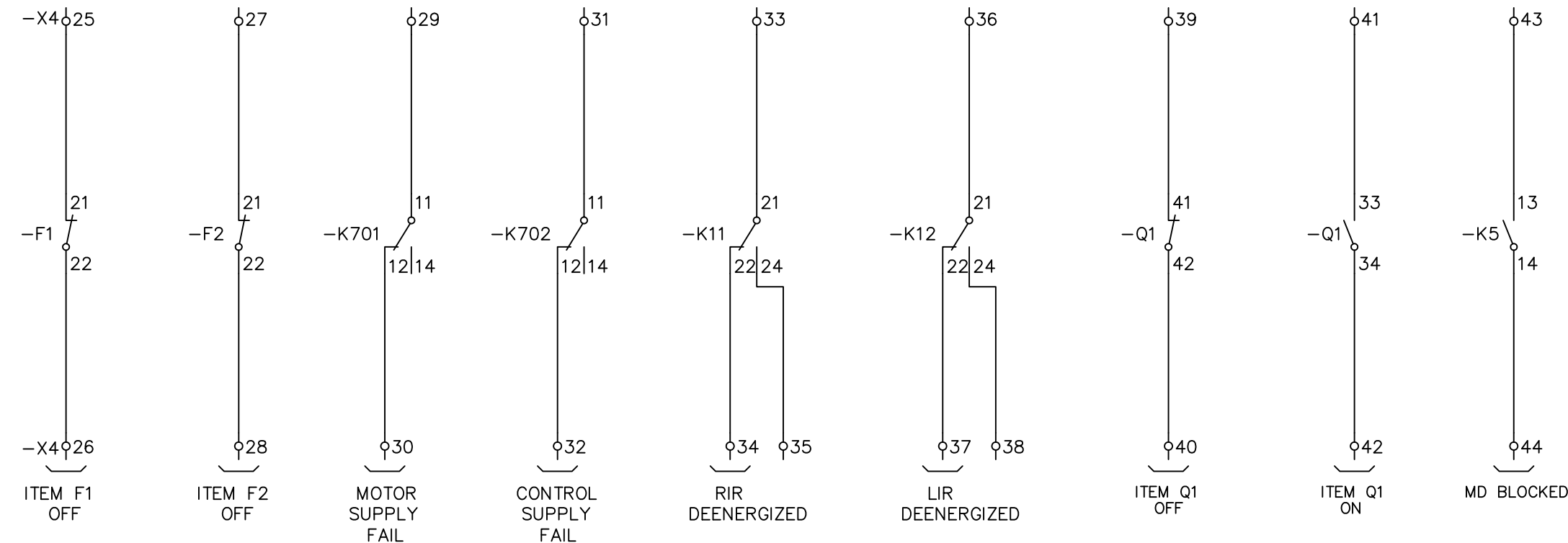
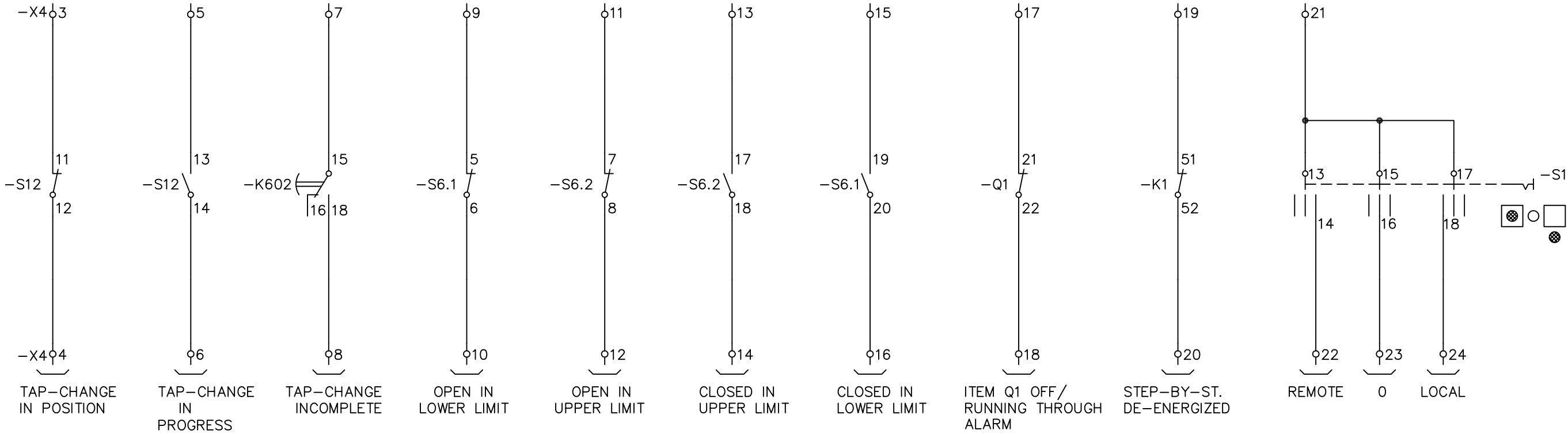
D

A

B

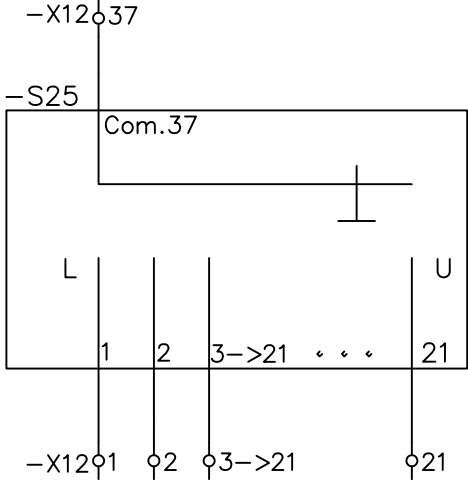
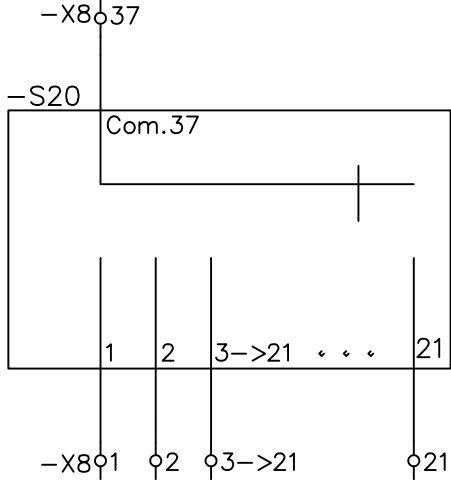
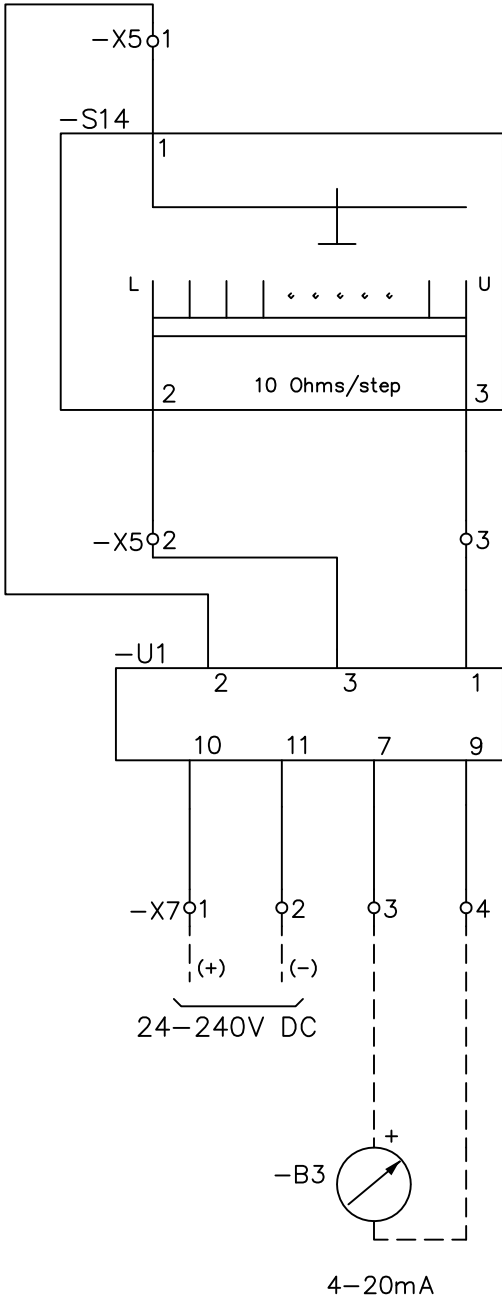
C


D



Based on		Prepared 2012-05-29 THLA	Circuit Diagram		=MD	
		Approved 2012-06-15 TOLA	Motor-drive Mechanism			
			TYPE BUE 2		Resp dep COM/FOK	Rev ind Lang
					T30000298	Sheet4
					XZ 220 027-VRZ	Cont 5

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Based on	Prepared	2012-05-29	THLA	Circuit Diagram Motor-drive Mechanism TYPE BUE 2	=MD		Rev ind	Lang
	Approved	2012-06-15	TOLA		COM/FOK			
		T30000298				T30000298 XZ 220 027-VRZ		Sheet 5

